

1     **CLAIMS**

2             1.     A remote controlled system comprising:  
3             a remote controller; and  
4             a general-purpose computer coupled to communicate with the remote  
5     controller and a controlled device to facilitate remote control of the controlled  
6     device by the remote controller.

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8             2.     A remote controlled system of claim 1, wherein the remote controller  
9     has a display and one or more input mechanisms that enable user input.

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11            3.     A remote controlled system of claim 1, wherein the remote controller  
12    is embodied as a cellular phone.

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14            4.     A remote controlled system of claim 1, wherein the controlled device  
15    is embodied as a home device selected from a group of home devices comprising a  
16    television, a stereo, a radio, a VCR, a set top box, lighting controller, and alarm  
17    controller.

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19            5.     A remote controlled system of claim 1, wherein the general-purpose  
20    computer is embodied as a desktop computer.

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22            6.     A remote controlled system of claim 1, wherein the general-purpose  
23    computer runs an open platform operating system.

1           7.     A remote controlled system of claim 1, wherein the general-purpose  
2 computer is configured to expose a universal plug and play (UPnP) application  
3 program interface (API) through which the remote controller and the controlled  
4 device may make calls to the general-purpose computer.

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6           8.     A remote controlled system of claim 1, wherein the general-purpose  
7 computer is configured to communicate with the remote controller and the  
8 controlled device using a wireless communication protocol.

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10          9.     A remote controlled system of claim 1, further comprising an  
11 application program stored and executed on the general-purpose computer, the  
12 application program directing the computer to provide UI information to the  
13 remote controller that may be used by a user to enter control data for controlling  
14 the controlled device and to translate the control data received from the remote  
15 controller into commands that are sent to the second device to effectuate an action  
16 intended by the user.

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18          10.    A remote controlled system of claim 1, further comprising multiple  
19 remote controllers and multiple controlled devices, the general-purpose computer  
20 is coupled to communicate with the multiple remote controllers and the multiple  
21 controlled devices to facilitate remote control of any one of the controlled devices  
22 by any one of the remote controllers.

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2       **11.**     A remote controlled system comprising:  
3       a first device having a user interface (UI); and  
4       a facilitator communicatively coupled to the first and a second device to  
5 facilitate remote control of the second device by the first device, the facilitator  
6 providing UI information to the first device that may be used by a user to enter  
7 control data for controlling the second device to perform an action, the facilitator  
8 translating the control data received from the first device into commands that are  
9 sent to the second device to effectuate the action intended by the user.  
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11       **12.**     A remote controlled system of claim 11, wherein the facilitator  
12 comprises a general-purpose computer.  
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14       **13.**     A remote controlled system of claim 11, wherein the facilitator  
15 comprises a general-purpose computer that runs an open platform operating  
16 system.  
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18       **14.**     A remote controlled system of claim 11, wherein the facilitator is  
19 configured to expose a universal plug and play (UPnP) application program  
20 interface (API) through which the first and second devices may make calls to the  
21 facilitator.  
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1           **15.**     A remote controlled system of claim 11, wherein the facilitator is  
2 configured to communicate with the first and second devices using a wireless  
3 communication protocol.  
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5           **16.**     A remote controlled system of claim 11, wherein the UI of the first  
6 device comprises one or more input components to permit user entry of the control  
7 data, the UI information being associated with the input components so that  
8 selection of a particular input component by the user results in generation of  
9 particular control data.  
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11           **17.**     A remote controlled system of claim 11, wherein the UI of the first  
12 device includes a display and the UI information includes text strings for display  
13 on the UI display.  
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2       **18.**    A clock radio comprising:  
3       a clock;  
4       a user interface (UI) to enable user input;  
5       one or more speakers; and  
6       a general-purpose computer, remote from but communicatively coupled to  
7       the UI and speakers, to facilitate remote control of the speakers by the UI.

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9       **19.**    A clock radio of claim 18, wherein the clock, the UI, and the  
10       speakers are integrated in a common housing.

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12       **20.**    A clock radio of claim 18, wherein the general-purpose computer  
13       runs an open platform operating system.

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15       **21.**    A clock radio of claim 18, wherein the general-purpose computer is  
16       configured to expose a universal plug and play (UPnP) application program  
17       interface (API) through which the UI and the speakers may make calls to the  
18       general-purpose computer.

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20       **22.**    A clock radio of claim 18, wherein the general-purpose computer is  
21       configured to communicate with the UI and the speakers using a wireless  
22       communication protocol.

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2       **23.**    A computer, comprising:  
3       one or more processors;  
4       computer-readable media including computer-executable instructions that,  
5       when executed by the one or more processors, cause the computer to:  
6       send information to a first device to configure a display means in the first  
7       device to display information related to the control of a second device;  
8       receive from the first device control data for controlling the second device;  
9       convert the received control data into control commands for the second  
10      device; and  
11      send the control commands to the second device.

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13       **24.**    A computer as defined in claim 23, wherein the first device and the  
14      second device are physically connected.

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16       **25.**    A computer as defined in claim 23, wherein the computer-executable  
17      instructions further cause the computer to expose a set of universal plug and play  
18      (IPnP) application program interfaces (APIs) through which information may be  
19      communicated to the first device.

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21       **26.**    A computer as defined in claim 23, wherein the computer-executable  
22      instructions further cause the computer to receive and store a schema of the first  
23      device.

1           **27.**    A computer as defined in claim 23, wherein the computer-executable  
2 instructions further cause the computer to receive and store a schema of the first  
3 device, the schema including a description of the first device.

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2       **28.**   A system comprising:  
3       a remote controller having a user interface (UI); and  
4       a general-purpose computer in communication with the remote controller;  
5   and  
6       computer-readable media including computer-executable instructions that,  
7   when executed by the general-purpose computer, cause the general-purpose  
8   computer to:  
9       receive from the remote controller information defining operational  
10   parameters of the UI;  
11       send information to the remote controller to configure the UI to display  
12   information related to the control of a controlled device and to receive user input  
13   for the control of the controlled device;  
14       receive from the remote controller data for controlling the controlled  
15   device; and  
16       send control commands to the controlled device, the control commands  
17   being based on the received control data.

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19       **29.**   A system as defined in claim 28, wherein the controlled device  
20   comprises a wireless device.

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22       **30.**   A system as defined in claim 28, wherein the UI comprises a display  
23   screen.  
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1       **31.**     A system as defined in claim 28, wherein the UI comprises a display  
2 screen and user input means.

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4       **32.**     A system as defined in claim 28, wherein the information defining  
5 operational parameters of the UI comprise a schema.  
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**33.** A system comprising:

means for sending information to configure a user interface (UI) in a first wireless device;

means for receiving from the first wireless device control data for controlling a second wireless device, the control data being based on user interaction with the UI of the first wireless device; and

means for sending control commands to the second wireless device, the control commands being based on the received control data.